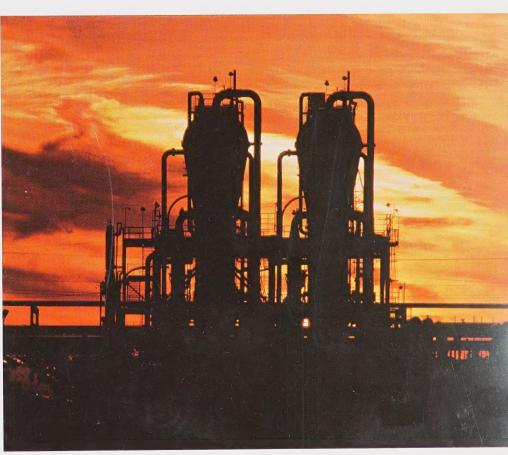


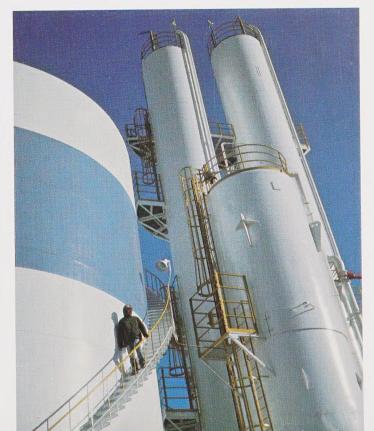
Union Carbide Canada Limited Annual Report 1977

AR02









Directors

†* Jacques de Billy Senior Partner, Messrs Gagnon, de Billy, Cantin, Dionne, Martin, Beaudoin & Lesage Quebec City

Douglas F. S. Coate Secretary and General Counsel Union Carbide Canada Limited Toronto

- *John S. Dewar President Union Carbide Canada Limited Toronto
- †* Alec Flamm Senior Vice-President Union Carbide Corporation New York

Alexander I. Hainey Vice-President Union Carbide Canada Limited Toronto

W. Norman Kissick Vice-President Union Carbide Canada Limited Toronto

†Fred B. O'Mara Executive Vice-President Union Carbide Corporation New York

Gordon W. Patterson Vice-President Union Carbide Canada Limited Toronto

- †* Ian D. Sinclair Chairman of the Board Canadian Pacific Limited Montreal
- †* James C. Thackray President Bell Canada Montreal
- †*Richard M. Thomson
 President and Chief
 Executive Officer
 The Toronto-Dominion Bank
 Toronto

*Audit Committee †Compensation Committee

Executive Officers

President John S. Dewar

Vice-Presidents Alexander I. Hainey W. Norman Kissick Gordon W. Patterson

Secretary and General Counsel Douglas F. S. Coate

Treasurer Vernon V. Garlick

Controller George A. Kelly

About Union Carbide

Union Carbide Canada Limited is a diversified manufacturing company with component businesses in chemicals, plastics, gases, metals and carbon. While primarily a supplier of basic materials to industry, Union Carbide also makes products for the consumer, including EVEREADY batteries, GLAD plastic wrap and bags and PRESTONE II anti-freeze. The Company is 25 per cent Canadian owned, its common shares being held by more than 5,000 shareholders. The remaining 75 per cent equity is owned by Union Carbide Corporation of New York. Approximately 4,700 people are employed in Union Carbide plants and sales offices across Canada.

Sur demande, il nous fera plaisir de vous envoyer l'édition française de ce rapport.

The Annual Meeting of Shareholders will be held at 2.30 p.m. on Thursday, April 27, 1978, at the Canterbury Inn, Sarnia, Ontario.

To our shareholders

The difficult business conditions of a troubled economy and the heavy cost burden of a major expansion combined to inhibit Union Carbide Canada Limited's 1977 financial performance.

Sales increased marginally to \$406.5 million as the economy recorded less than half its projected growth rate for the year. Net income was \$20.5 million, or \$1.94 per common share, substantially below the \$32.1 million, or \$3.21 per common share, earned in 1976. The decline was due to four factors:

- Lack of overall increase in sales volume due to the general economic slowdown;
- An inability because of market conditions to increase selling prices to the degree needed to offset continually inflating costs of petroleum-derived products and other raw materials;
- The commissioning expense of the company's largestever expansion, a world-scale polyethylene plant at Moore Township, Ontario;
- Higher interest charges on borrowings undertaken to finance the new polyethylene plant and other construction and investment projects.

The final cost of the Moore Township facility followed the inflationary trend of many current construction undertakings, increasing to \$197 million from the previous \$170 million estimate. To finance this additional cost and improve the Company's financial position generally, a \$60 million issue of preferred shares was successfully placed in August with a number of financial institutions.

Total construction expenditures of \$82.3 million, while the second highest in the Company's history, were down 25 per cent from the record level of the previous year. Capital spending is expected to drop further in 1978 and remain relatively stable for the next several years.

Although the past year proved to be a disappointing one from a sales and earnings viewpoint, it was a period of achievement in many other areas. Our safety performance, for example, was the best in our 70-year history.

We exceeded our goal in energy conservation and we continued to maintain our leadership role in occupational health and environmental improvement.

A year ago, I depicted 1977 as a year of transition for Union Carbide as the Company experienced the growth pains of moving to a significantly higher production base. Prevailing business conditions have dictated a stretching out of that transitional period. The challenge now is to achieve the volume necessary to profitably utilize our expanded production capacity and it is to this end that all our resources are aggressively being devoted. While there is little indication of any significant turn-around in the economy, Union Carbide is well positioned to take advantage of an upturn as soon as it occurs.

An unusual and formidable set of economic and constitutional problems has led to a climate of widespread uncertainty in Canada. However, this is a nation with strengths and characteristics that will allow it to learn and, ultimately, benefit from such difficulties. At Union Carbide, we remain confident that, given time, the economy will regain impetus and a new and acceptable federal structure will emerge.

To the many talented men and women who make up the Union Carbide Canada organization, I would like to extend my sincere appreciation for their constructive efforts and achievements during an unusually challenging period.

Presiden

Operations Review

Sales in 1977 exceeded the \$400 million mark for the first time, reaching \$406,536,000. The three per cent improvement over 1976 sales of \$393,735,000 resulted essentially from modest price increases as volume remained virtually unchanged, reflecting business conditions.

Demand for plastics strengthened and markets for chemicals posted some improvement. Union Carbide's metals, carbon and gas products businesses, however, all suffered from weakness in the markets they serve.

Stable sales volume and the lack of opportunity to institute necessary price increases to offset higher production costs were the major reasons behind a decline in net income to \$20,500,000, or \$1.94 per common share, from the \$32,121,000, or \$3.21 per common share, earned the previous year.

The preliminary operating expense of the new Moore Township facility and higher debt service charges adversely affected net income by 52 cents per share compared to 1976. It is Union Carbide's policy to write off such costs as they are incurred, rather than absorbing them over a number of years.

The impact of these costs on 1977 earnings was alleviated in part by improvements in non-operating gains amounting to 60 cents per share. These included the three per cent inventory allowance enacted late in the year, investment tax credits, inventory profits and adjustments to previous years' tax provisions.

In April, Union Carbide entered the marine food business by acquiring a 50 per cent interest in Apex Bio-Resources Ltd., a Vancouver Island salmon farming operation. Although initial production will be relatively small and devoted entirely to export markets, the long-term prospects for aquaculture are considered promising with consumer demand for seafood increasing steadily.

The Year At A Glance

	1977	Per Common Share	1976	Per Common Share
Sales	\$406,536		\$393,735	
Net Income	20,500		32,121	
Net Income after provision for dividends on preferred shares % of Sales % of Invested Capital* % of Common Shareholders' Equity	19,428 4.8% 4.7% * 8.1%	\$1.94	32,121 8.2% 9.1% 14.5%	\$3.21
Dividends on Common Shares % of Net Income (after preferred dividends)	9,000 46.3%	0.90	8,875 27.6%	0.89
Net Income Reinvested	10,696	1.07	23,246	2.32
Total Assets	619,331		546,064	
Construction Expenditures	82,299		110,207	
Depreciation and Amortization	18,104		17,012	
Common Shareholders' Equity (Book Value)	244,540	24.45	233,844	23.38
Number of Common Shareholders	5,200		5,500	
Market Price Range: High Low		19.25 16.25		24.00 17.62

⁽dollars in thousands – except per share figures)

^{*}Based on average of beginning and end of year figures. Invested capital includes short-term debt, long-term debt and Shareholders' Equity.

Twin high-density polyethylene reactors loom over the site of Union Carbide's newly-completed plant at Moore Township. The \$197 million facility more than doubles the Company's capacity for the most widely used of all plastics.



Union Carbide supplies the majority of the synthetic food casings used by Canadian meat packers for the production of wieners, sausages and other processed meats, in addition to serving export markets around the globe.

Chemicals

Sales of chemicals improved in 1977 although most markets registered only moderate growth. Substantial gains were obtained in sales of chemicals for natural gas treatment and for use in the production of paints and other coatings.

An exception to the growth pattern was the textile industry which continued to suffer the effects of intensive import competition. Ethylene glycol, one of the principal chemicals manufactured at Union Carbide's Montreal East petrochemical complex, is a key ingredient in polyester synthetic fibre.

Ethylene glycol is also extensively used in automotive anti-freeze and this market experienced substantial recovery from the low level of the previous year. The domestic price of anti-freeze and many other chemicals declined significantly, however, because of a continuing threat of offshore imports. In the latter half of the year, the negative impact of this pricing pressure was partially blunted by high plant operating efficiencies and restrained increases in raw material costs.

A study to evaluate the opportunities for Union Carbide in current Alberta petrochemical developments was completed and is undergoing assessment in the company's strategic planning process.

Plastics

The completion of the Moore Township polyethylene facility in late 1977 reinforced Union Carbide's position as Canada's leading supplier of the most widely used plastic.

The plant began producing high-density resin at midyear, using ethylene feedstock transported from Montreal East. In November, production was stepped up when ethylene became available from the adjacent primary petrochemical facility of Petrosar Limited, in which Union Carbide holds a 20 per cent equity interest. Low-density polyethylene facilities went into operation with Petrosar ethylene early in 1978.

The Moore Township plant, with an annual capacity in excess of 400 million pounds, complements Union Carbide's existing Montreal East polyethylene operation, increasing the Company's total annual polyethylene production capability to 500 million pounds of low-density and 200 million pounds of high-density resins.

Sales of low-density polyethylene improved significantly during the year, particularly to wire and cable markets which enjoyed strong growth. Export sales were aggressively pursued, allowing high operating rates at Montreal East.

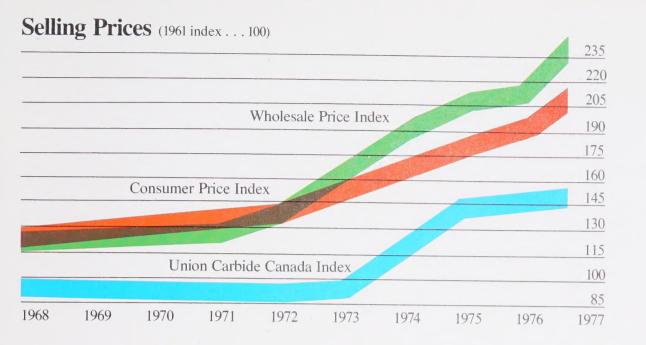


Market build-up of high-density resin was achieved in line with sales objectives. Technology efforts concentrated on supporting market penetration with such new applications as special containers and drums for chemical product shipments, spiral-wound pipe for non-pressure service and superior types of film for retailers' plastic bags.

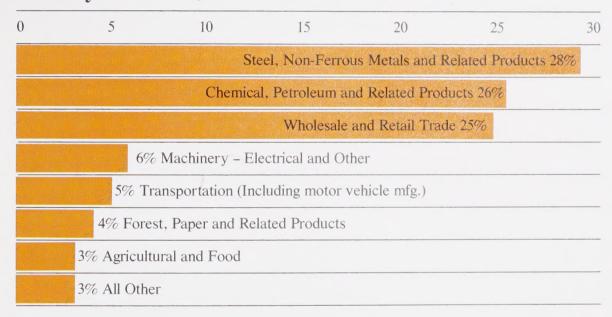
The company's polyethylene film business achieved higher sales in 1977 despite a market that continued to be plagued by over-capacity. Aggressive competition exerted severe pressure on prices.

Sales of food casings to meat producers posted modest gains as domestic demand increased sufficiently to pick up the slack of a slight decline in exports. Union Carbide is Canada's leading supplier of synthetic food casings for the meat industry.

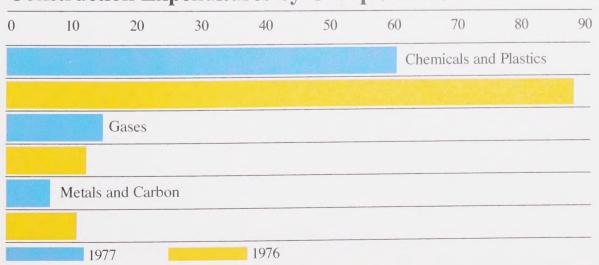
Cautious consumer spending patterns restrained plastic wrap and bag demand but the company's GLAD products continued to pace the market. Late in the year, a new GLAD line of "open top" storage bags was introduced nationally. The product line is designed to meet short-term storage needs around the home.



Sales by Markets (per cent of sales)



Construction Expenditures by Group (in millions)



This Oakville air separation plant is the newest of eleven such Union Carbide facilities serving industrial and medical markets from coast to coast.

Gases

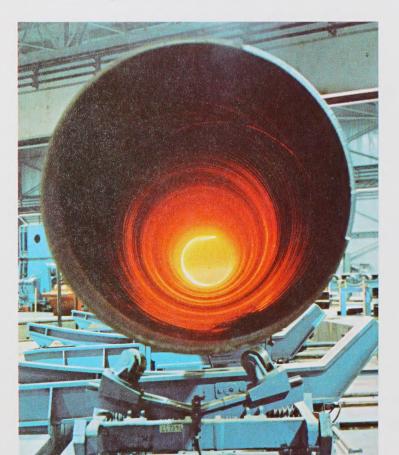
Union Carbide produces industrial gases at a network of air separation plants across the country. Other activities of this business include the manufacture and marketing of welding and cutting equipment and high-technology stream separation systems.

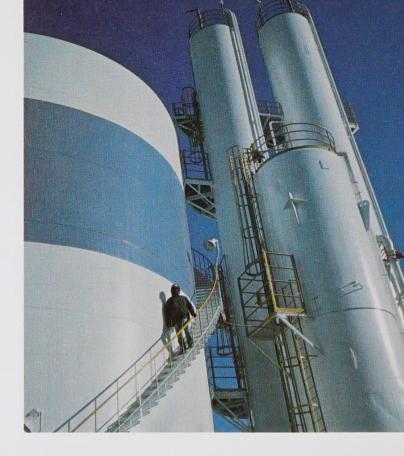
While gas sales improved over 1976's level, with significant gains being recorded in the supply of nitrogen to oil and gas well servicing operators in Western Canada, the overall performance of this business was restricted by the generally low investment in new plants and equipment.

Significant sales achievements included a contract to supply a \$1.6 million UNOX wastewater treatment system to a pulp and paper project at Kwidzyn, Poland. Financing of the installation will be handled by the Canadian Export Development Corporation.

To better supply the oxygen, nitrogen and argon requirements of Southern Ontario customers, a new \$12.3 million air separation plant went into operation at Oakville in September. With a combined capacity of 260 tons of air separation products daily, the new plant was commissioned ahead of schedule and replaced an outdated small facility.

At Sarnia, an expansion of existing nitrogen production capacity was started and is due for completion in the third quarter of 1978. The \$2.3 million project will improve Union Carbide's ability to supply nitrogen by pipeline to petroleum and petrochemical customers.





Another major construction project got under way in Alberta where work began on a \$23.1 million air separation facility at Fort Saskatchewan. Scheduled for start-up in 1979, the plant will provide gaseous oxygen to a new nearby Dow Chemical of Canada Limited petrochemical plant, gaseous nitrogen to Dow and other industrial customers in the area and liquid oxygen and nitrogen to expanding industrial and medical markets throughout Western Canada.

In other business developments, the technical services laboratory at Don Mills, Ontario, began manufacturing ozone generators. Ozonation is receiving wide acceptance as a safe and efficient substitute for chlorine to de-colour and purify drinking water.

Development efforts concentrated on the design of welding and cutting equipment for spiral-welded pipe, new equipment and procedures for protecting steel with a nitrogen atmosphere during the refining process and additional oxygen enrichment applications for a variety of metallurgical processes.

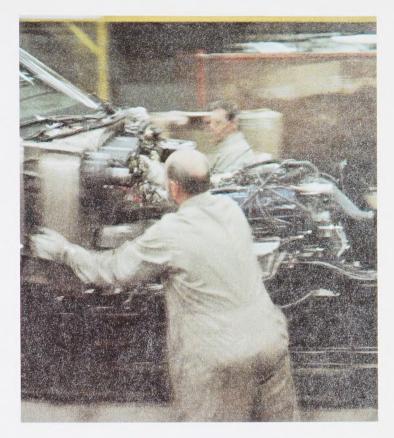
Metals and Carbon

The general decline in Canadian capital spending was a major factor in the performance of this area of Union Carbide's operations. Both metals and carbon sales held to 1976 levels.

The results reflected a shift in the mix of Canadian steel production away from structural steel, which depends on Union Carbide's ferroalloys for its toughness and dura-

Union Carbide is a leading supplier of equipment that welds and cuts pipe for natural gas and oil transportation. Here, a section of spirally-welded pipe is cut into transportable lengths by the Company's plasma arc cutting apparatus.

Ferroalloys from Union Carbide not only provide steel with its qualities of strength and durability but are also used in the production of numerous automative parts, including engine blocks, crankshafts, cylinder heads and brake drums.



Graphite electrodes produced at the Welland carbon products plant play an essential role in Canada's electric furnace steel industry. These electrodes are seen through the tap-hole of a furnace.



bility and is refined in electric arc furnaces powered by the Company's principal carbon product, graphite electrodes. While total Canadian steel output was marginally ahead of the previous year, electric furnace steel production dropped well short of capacity.

Ferroalloys also are supplied to the automobile and foundry industries. Automobile manufacturers experienced marginal growth during the year while foundries operated at markedly lower levels. Depressed pricing mirrored a world-wide surplus in ferroalloy supply.

The effect of weaker carbon markets was compounded by the foreclosure early in the year of one major customer and a lengthy strike at another. At year-end, a Federal Government investigation was launched into complaints by the graphite industry that furnace electrodes from Japan were being dumped in Canada.

Demand for Union Carbide's EVEREADY battery and lighting products remained strong in 1977, exceeding the previous year in spite of a retail environment that fell short of expectations.

Resources and Responsibilities

Employees

A skilled, enthusiastic work force is basic to the success of any company and Union Carbide continued in 1977 to place a major emphasis on programs to increase employee effectiveness and promote job satisfaction.

Initial training under the Union Carbide Management System was nearing completion at year-end, by which time more than 1,100 employees had taken part in programs designed to improve their managerial skills by giving them a deeper insight into their positions and accountabilities. The management system, with its emphasis on objective measurement of performance, enables the Company to equitably reward employees on the basis of their contribution and assists in the selection of candidates for promotion.

Union Carbide's comprehensive benefits package was further upgraded during the year. The non-contributory pension plan was improved for the third time in eight years and a completely new plan was introduced to help employees and their families pay for routine and restorative dental care.

The Company continued to encourage employees to think and act safely, both on and off the job. Disabling injuries – injuries which prevent employees from performing their assigned duties – were reduced by 20 per cent,

compared to eight per cent the previous year. A drop of 28 per cent in recordable injuries was another gratifying result of the intensified safety education program.

Nine collective agreements were negotiated without a work stoppage.

The Environment

In addition to meeting government regulations, Union Carbide constantly monitors its operations for possible threats to environmental quality, either inside or outside its plants. The principal vehicle for accomplishing this is the Company's Environmental Impact Analysis method of identifying and dealing with any existing or possible environmental hazards in any product, process or production facility.

During 1977, a major environmental control project was completed at the Beauharnois, Quebec, metals plant. Abatement equipment was built into the new Moore Township polyethylene plant in accordance with a general world-wide Union Carbide policy of equipping all new production facilities with the best practical pollution control equipment available.

At the Welland, Ontario, carbon products plant, work was completed on a 13-acre landscaping and redevelopment project which created an attractive greenbelt buffer area alongside the facility and a fully-equipped sportsfield and playground for a neighbouring school.

Widespread testing and sampling were undertaken in



Union Carbide's professional development program in 1977 included a series of lectures and group discussions to give employees a broader view of the changing role of the working woman in today's business environment.



work situations at all major plants. This resulted in programs to assure each employee of a work environment that is free of any potential health hazards.

Energy

An extensive energy conservation program continued to be the first line of defence against rising energy costs. In 1977, recurring savings of more than \$1.5 million were realized.

Union Carbide's goal for energy conservation exceeds the target of a joint industry-government program of voluntary conservation. The improvement in the Company's energy efficiency level has now reached more than half of the challenging goal set in 1976 for achievement by 1980.

An active role was maintained during the year in a number of trade associations which act to promote industry-wide and national energy conservation and also to ensure the fair pricing of all industrial energy forms.

An impromptu game of soccer is enjoyed by youngsters on a fully-equipped sportsfield developed for a neighbouring school by Union Carbide as part of an extensive landscaping program at its Welland plant.

Consolidated Statement of Income and Retained Earnings

	(thousands of dollars)				
		ear Ended aber 31, 1977	Yea	r Ended ber 31, 1976	
Sales	Deteri	\$406,536		\$393,735	
Cost of Goods Sold Selling, General and Administrative Expenses Depreciation and Amortization Interest on Long-Term Debt	\$314,315 39,096 18,104 16,217			291,705 31,895 17,012 14,385	
		387,732		354,997	
Investment Income Gain on Disposal of Capital Assets	5,831 1,273	18,804		38,738 7,888 777	
		7,104		8,665	
		25,908		47,403	
Income Taxes		6,600		19,680	
Share of Income of Companies carried at Equity		19,308 1,192		27,723 1,648	
Income before Extraordinary Item Per Common Share Extraordinary Item	\$1.94	20,500	\$2.94	29,371 2,750	
Net Income		20,500		32,121	
Net Income per Common Share	\$1.94		\$3.21		
Retained Earnings at January 1		174,244		150,998	
Dividends Paid – Preferred – Common	804 9,000	194,744 9,804		183,119 - - - - - - - - - - - - - - - - - -	
Retained Earnings at December 31		\$184,940		\$174,244	

Consolidated Statement of Changes in Financial Position

Operations Net Income Items not affecting Working Capital Depreciation and Amortization Transfer to Deferred Credits	\$ 20,500 18,104 7,591	\$ 32,121
Net Income Items not affecting Working Capital Depreciation and Amortization Transfer to Deferred Credits	18,104 7,591	
Items not affecting Working Capital Depreciation and Amortization Transfer to Deferred Credits	18,104 7,591	
Depreciation and Amortization Transfer to Deferred Credits	18,104 7,591	
Transfer to Deferred Credits	7,591	
		17,012
C1 CIT ' ITT ' CC '.		26,343
Share of Unremitted Earnings of Companies	5	
carried at Equity	(140)	(985
Gain on Disposal of Fixed Assets	(873)	(5,031
Working Capital Provided from Operations	45,182	69,460
Net Proceeds from Preferred Share Issue	59,700	_
Net Proceeds from Long-Term Debt Issue		58,275
Proceeds on Disposal of Fixed Assets	984	6,402
	105,866	134,137
Application of Funds		
Acquisition of Fixed Assets	82,299	110,207
Increase in Investments	17,600	11,924
Dividends Paid	9,804	8,875
Current Portion Long-Term Debt	2,250	2,727
Acquisition of Goodwill	597	170
Other – Net	(478)	434
	112,072	134,337
Decrease in Working Capital	(6,206)	(200
Working Capital at beginning of year	136,289	136,489
Working Capital at end of year	\$130,083	\$136,289
Changes in Components of Working Capital		
Cash and Marketable Securities	\$ (23,132)	
Receivables	5,351	8,894
Inventories	7,513	13,206
Prepaid Expense	1,292	1,021
Payables	1,735	(6,49)
Income and Other Taxes	1,035	(859
	\$ (6,206)	\$ (200

Consolidated Balance Sheet

		(thousands	s of dollars)
		December 31, 1977	December 31, 1976
Assets			
Current	Assets		
Cash	and Marketable Securities	\$ 17,468	\$ 40,600
Rece	eivables	71,349	65,998
Inve	ntories	101,270	93,757
Prep	aid Expense	5,189	3,897
Total Cu	irrent Assets	195,276	204,252
Fixed A	ssets	371,134	306,845
Investm	ents	48,689	30,949
Other A	ssets	4,232	4,018
		\$619,331	\$546,064
Liabilities			
Current	Liabilities		
Paya		\$ 63,540	\$ 65,275
Inco	me and Other Taxes	1,653	2,688
Total Cu	arrent Liabilities	65,193	67,963
Deferred	d Credits	91,848	84,257
Long-Te	erm Debt	157,750	160,000
		314,791	312,220
Shareholders' Equity			
Capital S			
	norized		
	6,000,000 Preferred Shares		
	2,500,000 Common Shares		
Issue			
	2,400,000 Preferred Shares	60,000	
	0,000,000 Common Shares	59,600	59,600
Retained	d Earnings	184,940	174,244
		304,540	233,844
		\$619,331	\$546,064
		The second of th	

Signed on behalf of the Board J. S. Dewar, Director J. de Billy, Director

UNION CARBIDE CANADA LIMITED and consolidated subsidiaries

The notes on pages 13, 14 and 15 are an integral part of this statement.

Auditors' Report

To the Shareholders of Union Carbide Canada Limited

We have examined the consolidated balance sheet of Union Carbide Canada Limited as at December 31, 1977 and the consolidated statements of income and retained earnings and changes in financial position for the year then ended. Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests and other

procedures as we considered necessary in the circumstances.

In our opinion, these consolidated financial statements present fairly the financial position of the company as at December 31, 1977 and the results of its operations and the changes in its financial position for the year then ended in accordance with generally accepted accounting principles applied on a basis consistent with that of the preceding year.

Toronto, Canada January 24, 1978 Hurdman Ed Crantoun

Chartered Accountants

Notes to the 1977 Financial Statements

			of dollars) December 31, 1976
Supplementary Balanc	e Sheet Detail		
Cash and Marketable			
	Cash and Deposits	\$ 12,516	\$ 18,754
	Short-Term Securities	4,952	21,840
		17,468	40,600
Receivables	Trade	56,430	45,494
	Affiliated Companies – Trade	5,349	6,006
	- Other	447	3,594
	Income Taxes Recoverable	4,748	5,200
	Miscellaneous	4.375	5,704
		71.349	65,998
Inventories	Raw Materials and Supplies	22,707	21,397
	Work in Process	29,562	26,997
	Finished Goods	49,001	45,363
		101,270	93,757
Fixed Assets	Land	7,761	7,487
I Med 1 100eto	Buildings	80,856	71,892
	Machinery and Equipment	458,930	389,310
	Total Gross Fixed Investment	547,547	468,689
	Accumulated Depreciation	176,413	161,844
	Net Fixed Investment	371,134	306,845
Investments	Companies carried at equity in net assets	6,378	6,284
	Petrosar Limited	37.935	20,891
	Other Investments	4,376	3,774
		48,689	30,949
Other Assets	Unamortized Commissions and Debt Discount	2,941	2,957
other rissets	Deferred Charges Patents, Trade Marks & Goodwill	507	669
	at unamortized cost	784	392
		4,232	4,018
Payables	Affiliated Companies	17,549	16,613
,	Current Portion Long-Term Debt	1,550	2,727
	Other	44,441	45,935
		63,540	65,275
Deferred Credits	Income Taxes	84,991	79,358
	Investment Tax Credits	6,857	4,899
		91,848	84,257
Long-Term Debt	 a) 8%% Unsecured Debentures maturing May 1, 1992. Mandatory sinking fund payments of \$750,000 annually commencing May 1, 1978 b) 10¾% Unsecured Debentures maturing June 15, 1995. Mandatory sinking fund payments of \$3,000,000 annually 	24,250	25,000
	commencing June 15, 1981	75,000	75,000
	c) 944% Unsecured Notes maturing May 1, 1982		30,000
	d) 93/4% Unsecured Debentures maturing	e viginio	,

	May 1, 1986. Mandatory sinking fund payments of \$1,500,000 annually commencing May 1, 1978	28,500	30,000
		157.750	160,000
Capital Stock	Authorized 6,000,000 preferred shares issuable in series with a par value for each series to be fixed by the directors at not less than \$10 nor more than \$50 per share but not	exceeding in the aggregate \$15 12,500,000 common shares wit nominal or par value.	
	Issued 2,400,000 Preferred Shares Series A 10,000,000 Common Shares	60,000 59,600	59,600
		119,600	59,600
	The 2,400,000 preferred shares Series A have a par value of \$25 each and were issued September 1, 1977 by way of private placement to Canadian institutions. These shares have a cumulative floating rate dividend adjusted and payable quarterly equal to the	sum of 11/4% and one-half of basinterest rate. They are redeemed the option of the Company after before August 31, 1980 and are par at the option of the holder of 1987.	able at par at er but not retractable at
2. Summary of Accounting Policies Principles of Consolidation	The consolidated financial statements include the assets, liabilities, revenues and expenses of all significant subsidiaries. Investment in companies 25 to 50 per cent owned are carried at equity in net assets and the Company's share of their earnings is included in the income statement. The excess purchase price over equity value at	time of acquisition (ie., goodwitized over five years. Other inv (including Petrosar Limited ref Note 4) are carried at cost or le following is a financial summar companies carried at equity: (thousands of dollar December 31, 1977 December 31)	Persents Perred to in ess. The ery of those
	Total Assets Less Total Liabilities	\$30,198 17,091	\$29,216 16,241
	Net Assets	13,107	12,975
	UCCL Equity in Net Assets	6,378	6,284
	UCCL Equity in Net Income	1,192	1,648
Short-Term Securities	Short-Term securities are carried at cost, which approximates market.		
Inventories	Inventory values, which do not include depreciation of fixed assets, are stated at cost and net realizable value, whichever is	lower. Cost is determined on the cost method.	he average
Fixed Assets and Depreciation	The Company carries fixed assets at cost. Expenditures for replacements are capitalized and the replaced items are retired. Maintenance and repairs are charged to operations. The Company uses straight-line depreciation for financial accounting purposes. Rates are based	on estimates of useful life for ear of depreciable fixed assets. Depris not charged on new assets unbecome operative. Gain or loss of fixed assets is calculated on this ing net book value at the time of and is reflected in income.	preciation ntil they on disposal the remain-
Research and Development	Research and development costs are charged to cost of goods sold as incurred.		
Income Taxes	The Company uses the deferral method of tax allocation to provide for income taxes. The time in which transactions affect taxable income frequently differs from the time in which they enter into the	determination of income in the statements. The cumulative did between taxes provided and tax are shown under "Deferred Cr the Consolidated Balance Sheet	fferences kes payable redits'' on

Prog	ployee Retirement		e taxes. e taxes in 1977	made	in previous yea	ment to process.	vestment ovisions
3.	gram	The actuarial liability for under the retirement prog to be \$25,673,000 at Janu	gram, estimated		ortized over a p naccordance w tion.		
	Extraordinary Item	In 1976, the extraordinar of a gain on divestment or resins business.					
4.	Commitments	a) The Company has a 20% equity interest in Petrosar Limited with which the Company has entered into long term take or pay contracts for the purchase of ethylene and atmospheric residual oil. The atmospheric residual oil contract was entered into by the Company as accommodation purchaser for Union Carbide Corporation which has undertaken to protect the Company from all losses which may be incurred thereunder. The Company is committed to advance 30.4% of any funds necessary to make up any deficiency in meeting certain of the debt obligations of Petrosar Limited, including bank loans and customer prepayments. The Company and Petrosar Limited have approved a proposal whereby, in 1978, Petrosar will refinance its term indebtedness, including its subordinated debentures held by the Company, by the issue of preference shares of several classes of which the most senior would be held by Petrosar's bankers, would carry the right to a cumulative preferen-		be retractable over a period expiring December 31, 1987. If the proposal is approved by all parties, the Company will be committed to purchase the right to such dividend or to purchase the said shares from the banks to the extent of 30.4% thereof if Petrosar should default in meeting certain conditions. Also, the Company will be committed to subscribe for \$6.1 million of a class of preference shares of Petrosar Limited, in addition to those replacing subordinated debentures as aforesaid, ranking in all respects behind the shares to be held by the banks. Union Carbide Corporation has agreed to advance or cause to be advanced to the Company an amount equal to 33.2% of any funds required to be paid pursuant to the aforementioned financial com-			
	Directors' and Officers' Remuneration	In 1977, four directors rec gate remuneration of \$34 and seven directors received	,100 as directors	tion as directors. Eight officers earned aggregate remuneration of \$783,131 as officers. Five officers were also directors.			,131 as
	Anti-Inflation ægislation	In 1975, the government elegislation, which is appli		Company, to restrain increases in prices, compensation and dividends.			in prices,
7. S	ales	Consolidated sales by cla and proportion of the tota		% of Total	1976	% of Total	% Change from 1976
		Chemicals Plastics Gases Metals and Carbons	\$ 63,242 142,039 63,187 138,068 \$406,536	16 35 15 34	\$ 52,782 135,864 68,648 136,441 \$393,735	13 35 17 35	+20 + 5 - 8 + 1 + 3
	Net Income per Common Share	The calculation of Net In Common Share is based available after provision	come Per on earnings	the Preferred Shares. In 1977, the provision amounted to \$1,072,000, of which \$804,000 had been declared and paid.			he provision
	Comparative Figures	Certain of the figures in t 1976 financial statements	he Company's s have been		ssified to confor ntation adopted		e financial

Five Year Summary

		1977	1976	1975	1974	1973
Sales						
	Chemicals	\$ 63,242	\$ 52,782	\$ 56,800	\$ 52,878	\$ 40,817
	Plastics	142,039	135,864	119,726	110,146	82,832
	Gases	63,187	68,648	73,770	54,155	40,688
	Metals and Carbon	138,068	136,441	127,876	124,178	81,351
		\$406,536	\$393,735	\$378,172	\$341,357	\$245,688
Net Income		20,500	32,121	43,136	45,085	16,907
Net Income after provision for	dividends on preferred shares	19,428	32,121	43,136	45,085	16,907
	% of Sales	4.8%	8.2%	11.4%	13.2%	6.9%
	Per Common Share	1.94	3.21	4.31	4.51	1.69
Total Assets		619,331	546,064	431,852	316,528	229,665
Working Capital		130,083	136,289	136,489	77,212	63,258
Construction Expenditures		82,299	110,207	74,784	46,767	21,084
Depreciation and						
Amortization		18,104	17,012	14,811	13,950	13,691
Employee Data						
	Wages and Salaries	80,621	75,168	62,845	56,535	48,463
	Average Number of Employees	4,695	4,819	4,858	4,943	4,807

Plants and Products

Carbon

Welland and Toronto, Ontario

Electric Arc Furnace Electrodes/Electrolytic Cell Anodes/Furnace Linings/Electric Motor and Generator Brushes/Theatre Projector Carbons/Carbon and Graphite Products for chemical, electrical, mechanical and metallurgical applications

Chemicals

Montreal East, Quebec

Union Carbide Organic Chemicals, including Ethylene Oxide, Ethanolamines, Glycols and Glycol Ethers/Agricultural Chemicals/Silicone Chemicals, Resins, Oils and Elastomers/Urethane Foam Intermediates/Vinyl Coating Resins/Cellosize/Carbowax Polyethylene Glycols/Ucon Lubricants/Ucar Latices

Consumer Products

Toronto, Orangeville and Walkerton, Ontario/Cowansville, Quebec.

EVEREADY Flashlight, Transistor, Alkaline, Hearing Aid, Nickel Cadmium and other Batteries/EVEREADY Flashlight Cases and Lanterns/EVEREADY Flashlight Lamps/PRESTONE II Anti-Freeze and Summer Coolant/PRESTONE Car Care Products/GLAD Food Wrap, Bags and Garbage Bags

Gases

Vancouver and Vernon, British Columbia/Calgary and Edmonton, Alberta/Saskatoon, Saskatchewan/Selkirk, Thompson and Transcona, Manitoba/Thunder Bay, Sault Ste. Marie, London, Mississauga, Oakville, Sarnia and Ottawa, Ontario/Noranda, Arvida, Montreal, Montreal East, Tracy, Lauzon and Sept-Iles, Quebec/Saint John, New Brunswick/Halifax, Nova Scotia

LINDE Oxygen, Nitrogen, Hydrogen, Argon, Helium, Carbon Dioxide and Rare Gases/Specialty Gas Mixtures/Fumigants and Sterilants/Calcium Carbide and Acetylene/Gas and Electric Welding, Cutting, Forming and Heat-Treating Apparatus/Welding Rods, Wire and Electrodes/Power Sources/Heat Exchangers/Steel-Conditioning Machines/Rock-Piercing and Shaping Equipment/Medical Gases, Inhalation and Suction Therapy Equipment/Distillation Trays/Cryogenic Equipment/Food Freezing Equipment/Molecular Sieves/UNOX System for secondary wastewater treatment

Metals

Beauharnois and Chicoutimi, Quebec

Ferroalloys, Alloying Metals, Pure Metals and Metal Compounds produced from the elements Boron, Calcium, Chromium, Manganese, Silicon, Titanium, Tungsten, Vanadium and Zirconium

Plastics

Lindsay and Moore Township, Ontario/Cowansville and Montreal East, Quebec

Union Carbide Low- and High-Density Polyethylene Resins/Co-Polymers/Vulcanizable and Semi-Conductive Compounds/Polyethylene Film/Polyethylene Powders/Polysulfone Resins/Polyvinyl Chloride Compounds and Sheeting/Polystyrene Resins/Visking Cellulose Food Casings/Visten and Perflex S Specialty Films

Principal operating subsidiaries

Dominion Viscose Products Limited – cellulose food casings/Smelter Power Corporation – hydro-electric power

Union Carbide Canada Limited

Head Office

123 Eglinton Avenue East

Toronto, Canada

M4P 1J3

Stock Transfer Agent and Registrar

Canada Permanent Trust Company Halifax, Montreal, Toronto, Winnipeg

and Vancouver

Stock Exchange Listings

Montreal and Toronto

Auditors

Hurdman and Cranstoun

Toronto